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ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FIRST NAMED INVENTOR **FILING DATE** 3104 MI22-1171 09/292,132 04/14/1999 SALMAN AKRAM **EXAMINER** 12/15/2005 7590 21567 WELLS ST. JOHN P.S. MULPURI, SAVITRI 601 W. FIRST AVENUE, SUITE 1300 **ART UNIT PAPER NUMBER** SPOKANE, WA 99201 2812

DATE MAILED: 12/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>-</u>						
-		Applic	ation No.	Applicant(s)		
		09/292	2,132	AKRAM ET AL.		
Off	fice Action Summary	Exami	ner	Art Unit		
		Savitri	Mulpuri	2812		
The N Period for Repl	MAILING DATE of this commu	nication appears on	the cover sheet w	vith the correspondence a	ddress	
THE MAILIN - Extensions of the after SIX (6) Must be after SIX (6	IED STATUTORY PERIOD IN GENERAL OF THIS COMMUNITY IN THE PROVISION ON THE FROM THE MAILING DATE OF THE PROVISION ON THE FROM THE MAILING DATE OF THE PROVISION	IICATION. s of 37 CFR 1.136(a). In no munication. (30) days, a reply within the statutory period will apply an ly will, by statute, cause the	statutory minimum of thind will expire SIX (6) MO application to become A	reply be timely filed rty (30) days will be considered time NTHS from the mailing date of this of the control o		
Status						
1)⊠ Respo	nsive to communication(s) fi	ed on <u>9/16/ 2005</u> .				
2a) X This a	This action is FINAL. 2b) This action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of (Claims					
4a) Of 5)⊠ Claim(6)⊠ Claim(7)□ Claim(Claim(s) 62-75,80,81,87,88,90 and 93-103 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 6275.80-81,87, 93-98 is/are allowed. Claim(s) 88,90 and 99-103 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Application Par	pers					
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
• •	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 3	35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)			4) [] +=+==::=:::	Summon /DTO 442\		
2) Notice of Drag	erences Cited (PTO-892) ftsperson's Patent Drawing Review isclosure Statement(s) (PTO-1449 of Mail Date		Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PT	O-152)	

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DETAILED ACTION

This action is in response to the applicant communication filed on 4/4/4005
Claims 88, 90, 99-103are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. After further review of the specification, it is noted that there is no support for "providing fluorine within the gate oxide before forming gate". In specification in page last paragraph, only chlorine can be provided before or after formation of gate (Fig.1), but not providing fluorine before forming gate. Fig.1 shows first embodiment, and Fig. 2 and 3 shows second embodiment. None of the embodiments show providing fluorine into gate oxide and then forming gate and then forming at least one spacer comprises fluorine for providing.

None of the disclosed embodiments teach the combinational step of "providing fluorine with in gate first and then again forming side wall spacers—laterally adjacent to the gate, wherein the spacers comprises fluorine for providing".

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lu (5,683,946) teaches fluorinated gate oxide and then forming gate. Yamazaki et al (6,586,346) teaches forming gate oxide in fluorinated atmosphere and then forming gate.

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Applicant's arguments filed 9/16/2005 have been fully considered but they are not persuasive. Applicant argues that there is support for the limitation of "providing fluorine with in the gate oxide layer and forming a gate proximate the gate oxide layer having the fluorine therein after providing" and applicant point out page 12, lines 19-21 for support. However, instant disclosure, at page 12, lines 19-21 covers as follows "the above embodiments prefererably place doped chlorine or fluorine proximate both gate edges 26 and 28 with in the respective gate oxide layers" and such disclosure is limited to only at the edges 26 and 28. However, applicant must refer the previous paragraph, page 12, lines 14-15, that central region between edges being substantially void of fluorine and chlorine. If fluorine is all ready supplied in the gate oxide before forming gate, how can the central region between edges can be void of fluorine. Applicant must realize the difference of first embodiment, fig. 1, where chlorine is present throughout gate oxide, where as other embodiments fig. 2-10 the central region between edges is void of chlorine or fluorine.

Applicant respectfully requested to refer disclosure of the first embodiment, fig.1, at page 6-23, which is exclusively limited to providing <u>chlorine</u> before forming gate but <u>not fluorine</u> before forming gate.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Mon-Fri from 8 a.m. to 4.30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt, can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Savitri Mulpuri
Primary Examiner

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